

AURO^N

N-Type Topcon Bifacial Module

380-400W NLBK-24

Key Product Features



Light transmission

Modules 5%-40% transmittance
Suitable for scenarios with light transmission



Zero LID

N-Type wafer No B-O caused LID
Excellent LID resistance performance



PID Resistant

Optimize cell production technology and material control. Enhance PID Resistant performance, and reduce degradation



Excellent low-light performance

Better low-light power generation performance in low radiation environment such as haze and cloudy days



SMBB Technology

16BB has better light trapping and current collection to improve module power output



Bifacial design

Double-sided power generation
Power gain up to 5%~32%



Low temperature coefficient

Peak power temperature coefficient
Excellent power generation performance in high temperature environment



LOW LCOE (Levelized Cost of Energy)

Reduce the cost of BOS efficiently
Increase return on project investment

Comprehensive product certification

- IEC61215-1(ed.1)
- IEC61215-1-1(ed.1)
- IEC61215-2(ed.1)
- IEC61730-1(ed.2)
- IEC61730-2(ed.1)
- UL 61730-1 1st Edition
- UL 61730-2 1st Edition

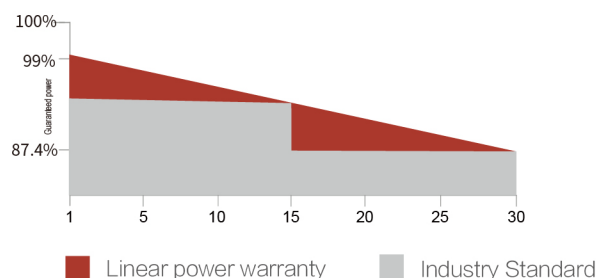


Industry-leading Quality Assurance

15 year
Product warranty

30 year
Linear power warranty

-0.40%
Annual degradation



● Please refer to the warranty letter for details



Solar Power



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Electrical Data(STC*)

Module Type: NLBK-24	380	385	390	395	400
Rate Maximum Power(Pmax)(W)	380	385	390	395	400
Open Circuit Voltage(Voc) (V)	34.79	35.04	35.28	35.53	35.77
Short Circuit Current(Isc) (A)	13.75	13.82	13.90	13.97	14.05
Maximum Power Voltage(Vmp)(V)	28.60	28.81	29.02	29.24	29.45
Maximum Power Current (Imp) (A)	13.30	13.37	13.44	13.51	13.59
Module Efficiency (%)	14.71	14.90	15.10	15.29	15.48

*Standard Test Conditions (STC) : irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C

Electrical Data(NMOT*)

Module Type: NLBK-24	380	385	390	395	400
Rate Maximum Power(Pmax)(W)	288.3	292.0	295.6	299.4	303.3
Open Circuit Voltage(Voc) (V)	32.9	33.1	33.3	33.6	33.8
Short Circuit Current(Isc) (A)	11.10	11.15	11.22	11.28	11.34
Maximum Power Voltage(Vmp)(V)	27.4	27.6	27.7	27.9	28.2
Maximum Power Current (Imp) (A)	10.54	10.59	10.65	10.72	10.77

*Nominal Module Operating Temperature (NMOT):irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

Operational Parameter

Operating Temperature	-40°C~+85°C					
NMOT (Nominal Module Operating Temperature)	45±2°C					
Maximum System Voltage(V)	1500V DC					
Maximun Fuse Current Rating(A)	30A					
Fire Safety	Class C					
Power Tolerance	0~+5W					
Bifacial Factor	80±5%					
PG. 400W	5%	10%	15%	20%	25%	30%
Rate Maximum Power(Pmax)(W)	420	440	460	480	500	520
Open Circuit Voltage(Voc) (V)	35.77	35.77	35.77	35.77	35.77	35.77
Short Circuit Current (Isc) (A)	14.75	15.46	16.16	16.86	17.56	18.27
Maximum Power Voltage(Vmp)(V)	29.45	29.45	29.45	29.45	29.45	29.45
Maximum Power Current(Imp) (A)	14.27	14.95	15.63	16.31	16.99	17.67

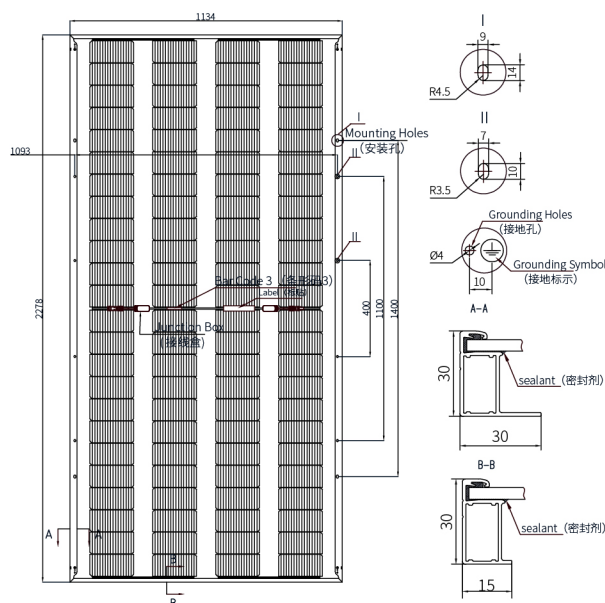
Mechanical Properties

Cell Type	N - type Mono-crystalline					
Number of Cells	96					
Dimension of Module	2278*1134*30mm					
Weight	32.0kg±5%					
Front Glass	2.0mm semi-tempered glass with AR Coating					
Back Glass	2.0mm semi-tempered grid printing glass					
Frame	Anodized aluminum alloy					
Junction Box	IP68(3 Diodes)					
Cable Length	+320mm , -260mm(4.0mm ²); or Customized Length					
Packing Information	720(36*20)pcs per 40'HQ					

Temperature Coefficient

Peak Power Temperature Coefficient	-0.278%/°C
Open-Circuit Voltage Temperature Coefficient	-0.239%/°C
Short-Circuit Current Temperature Coefficient	0.044%/°C

Drawing



I-V curve

